

CLAIMS:

WHAT IS CLAIMED IS:

1. A plant growing apparatus, the apparatus comprising:
 - (a) a sidewall with an outer surface and an inner surface and
5 having a plurality of tiers where each descending tier has a smaller diameter than the tier immediately above and wherein a ledge is formed in an inside of the sidewall where adjacent tiers meet;
 - (b) an anti-circling channel formed in the sidewall wherein
the channel protrudes through the sidewall forming an indenture in the inner
10 surface of the sidewall and a channel on the outer surface of the sidewall;
 - (c) a plurality of slots formed therethrough the sidewall;
 - (d) a detachable base that is connected to the sidewall.
2. The apparatus of claim 1 wherein the sidewall forms a geometric
shape with an opening at a top edge of a top tier of the sidewall and a closed
15 end at a lower edge the sidewall.
3. The apparatus of claim 2 wherein the closed end comprises a lip
with at least one of a connection for securing the base and a drainage
opening.
4. The apparatus of claim 1 wherein the sidewall forms a geometric
20 shape with an opening at a top edge of a top tier of the sidewall and an
opening at a lower edge of the sidewall.
5. The apparatus of claim 4 wherein a lip extends from the lower
edge of the sidewall towards a center of the geometric shape with at least one
of connection points for securing the base and drainage openings .

6. The apparatus of claim 1 further comprising an opening at a top end of the anti-circling channel disposed inside of the sidewall and an opening at a bottom of the anti-circling channel.

7. The apparatus of claim 6 further comprising a stake that fits through the opening at the top of the anti-circling channel, passes through the channel, and exits through the opening at the bottom.

8. The apparatus of claim 1 wherein the detachable base comprises a top end and a lower end wherein the lower end is broader than the top end.

9. The apparatus of claim 8 wherein the detachable base further comprises at least one of an anti-circling channel and slots formed therethrough the base.

10. The apparatus of claim 1 wherein the lower end of the base is contoured to conform to a ground surface allowing the apparatus to remain in a level position.

11. The apparatus of claim 10 further comprises a base that forms a gap between the lowest tier and the upper end of the base, an angular surface within a bottom of the lower end of the base and an angular grid that connects to the bottom of the lowest tier of the sidewall and rests upon the angular surface wherein the apparatus is adjustable to remain in a level position when the base is placed on an unlevelled surface.

12. The apparatus of claim 10 wherein the base further comprises an adjustable lever to at least one of elevate and lower at least one of the base and a side of the base.

13. The apparatus of claim 1 further comprises cleats connected to a bottom of the base and extending in a downward direction from said base.

14. The apparatus of claim 1 wherein a shape of the top end of the base is different from a shape of the lower end of the base.

5 15. The apparatus of claim 1 further comprising a natural fiber-based insert inside of the sidewall.

16. The apparatus of claim 1 wherein the base comprises a bottom with openings formed therethrough.

10 17. A method of air pruning and controlling root growth in a plant, the method comprising:

(a) providing a container comprising a sidewall with a plurality of tiers where each descending tier has a smaller diameter than the tier immediately above;

15 (b) preventing a root from circling with an anti-circling channels extending upwardly along an inner surface of the sidewall;

(c) pruning a root with air entering through slots disposed therethrough the sidewall of the container; and

(d) elevating the container with a detachable base to allow air-root pruning to occur without interference from a ground covering.

20 (e) leveling an upper edge of the container to be nearly parallel with a horizon.

18. The method of claim 17 further comprising securing the container to the ground using a stake.

19. An improvement to a growing container having an anti-circling channel and air-root pruning openings, the improvement comprising:

a detachable base having a top end and a lower end wherein the base elevates the container.

5 20. The improvement of claim 19 further comprising the lower end of the base being configured to contour to an unlevelled surface wherein the container remains in a level position.

21. The improvement of claim 19 wherein the shape of the top end of the base is different from the bottom end of the base.

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22. The improvement of claim 19 wherein the base further comprises at least one of an anti-circling channel and air-root pruning openings.

15 23. The improvement of claim 19 further comprises a base having a wider width than a bottom of the container, an angular surface within a bottom of a lower end of the base and an angular grid that connects to the bottom the container and rests upon the angular surface wherein the container is adjustable to remain in a level position when the base is placed
20 on an unlevelled surface.

24. The apparatus of claim 19 wherein the base further comprises an adjustable lever to at least one of elevate and lower at least one of the base and a side of the base.

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